

Title (en)  
SPRAYING HEAT PRESERVATION VAPOR SUPPLYING DEVICE AND GENERATOR APPARATUS USING SUCH DEVICE

Title (de)  
SPRÜHENDE WÄRMEBEWAHRUNGSDAMPFBEREITSTELLUNGSVORRICHTUNG UND GENERATORVORRICHTUNG MIT SOLCH EINER VORRICHTUNG

Title (fr)  
PULVÉRISATION DE DISPOSITIF D'ALIMENTATION EN VAPEUR DE CONSERVATION DE CHALEUR ET GÉNÉRATEUR APPAREIL UTILISANT UN TEL DISPOSITIF

Publication  
**EP 3098537 A1 20161130 (EN)**

Application  
**EP 16165091 A 20160413**

Priority  
TW 104112278 A 20150416

Abstract (en)  
A spraying heat preservation vapor supplying device (100) comprises: a heat preservation boiler (10) having an inner chamber (11), an outer chamber (12) surrounding the inner chamber (11) and a compartment layer (13) separating the inner chamber (11) from the outer chamber (12); a high heat capacity material (20) filled in the outer chamber (12); a heater (30) connected to the heat preservation boiler (10) and heating the high heat capacity material (20), heat of the high heat capacity material (20) being transferred to the inner chamber (11) through the compartment layer (13); a supplier tube (40) having a first end (41) disposed in the inner chamber (11); a liquid source (50) connected to a second end (42) of the supplier tube (40) and supplying a liquid to the inner chamber (11) through the supplier tube (40) to absorb heat of the inner chamber (11) so that a vapor is generated; and a vapor outlet (60) connected to the inner chamber (11) and outputting the vapor. A generator apparatus (300) using the vapor supplying device is also provided.

IPC 8 full level  
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Citation (search report)  
• [XYI] DE 1281657 B 19681031 - RHEIN WESTFAEL ELECT WERK AG  
• [XYI] DE 2117103 A1 19721026  
• [XI] DE 2145097 A1 19730322 - VITT GERHARD  
• [Y] WO 7901005 A1 19791129 - SOLAR DYNAMICS LTD [US]  
• [Y] US 2008276616 A1 20081113 - FLYNN BRIAN J [US], et al  
• [Y] EP 2369288 A1 20110928 - SIEMENS AG [DE]

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